

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Joshua J. Higgins

GENERAL INFORMATION:

Name:	Ahlstrom Engine Filtration, Inc.
Address:	215 Nebo Rd., Madisonville, KY 42431
Date application received:	December 20, 1999
SIC/Source description:	2621/ Paper Mills
Plant I. D.	021-107-00028
Application log number:	51224/5473
Permit number:	V-04-021

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__ Administrative	<input checked="" type="checkbox"/> Title V
__ Minor	<input type="checkbox"/> Synthetic minor
__ Significant	<input checked="" type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input checked="" type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☒ Source subject to a MACT standard (40 CFR 63, JJJJ. Compliance Date = 12/05/05)
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM ₁₀	8.38	9.01
SO ₂	2.24	4.11
NO _x	60.14	69.23
CO	50.67	55.44
VOC	604.87	604.87
LEAD	1.28 x 10 ⁻⁴	1.28 x 10 ⁻⁴
HAP ≥ 10 tpy (by CAS)		
Formaldehyde (50-00-0)	41.22	41.22
Methanol (67-56-1)	518.27	518.27
Phenol (108-95-2)	18.39	18.39
Triethylamine (121-44-8)	8.95	8.95
Total HAPs:	586.83	586.83

SOURCE PROCESS DESCRIPTION:

Ahlstrom Engine Filtration, LLC, owns and operates a paper filter manufacturing facility in Madisonville, KY. Based on customer needs, the paper making process begins with mixing wood pulp, cotton linters pulp, glass fibers, or polyester fibers with water in the paper machines hydropulper. These raw materials are shipped onto the facility and stored in a warehouse until needed (i.e., not manufactured by Ahlstrom). The wet slurry from the hydropulper is passed through a series of screens and metal drums to produce a wide single continuous sheet of paper at a specified thickness. The paper is dried using hot drums and a Honeycomb Through-Air Dryer (TAD). The paper is passed through a resin saturator containing an alcohol-resin mixture that contains hazardous air pollutants (HAPs). The coated paper is wound onto a spool and hung in the mull rack for several hours to allow the solvent to penetrate and saturate the paper fibers. Once saturated, the paper is unwound and passed through the Pre-dryer and the Cure Oven to cure and volatilize remaining organic solvents. The hot, dry paper is then rewound onto another spool and allowed to cool in preparation for cutting to customer specifications. The finished product is stored in a warehouse until ready for shipment.